

AMENDMENTS TO THE CLAIMS

Claims 1-50 were pending at the time of the Office Action.

Claims 1-5, 9-26-30, 34-37, 39-45, and 47-50 are amended.

Claims 1-50 remain pending.

CLAIMS

1. (CURRENTLY AMENDED) A method comprising:

publishing a schedule of content transmission, the schedule being defined in response to an order in which the at least one content is spatially resident upon at least one hardware spatial data storage system, the schedule identifying the content by one or more times;

reading at least one content from the at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission; and

transmitting the at least one content to a temporal data storage system in accord with the published schedule.

2. (CURRENTLY AMENDED) The method of Claim 1, wherein said publishing a schedule of content transmission, the schedule being defined in response to an order in which the at least one content is spatially resident upon at least one hardware spatial data storage system, the schedule identifying the content by one or more times further comprises:

printing the schedule of content transmission on a medium; and

distributing the medium to one or more sites associated with one or more associated data switch controllers.

3. (CURRENTLY AMENDED) The method of Claim 1, wherein said publishing a schedule of content transmission, the schedule being defined in response to an order in which the at least one content is spatially resident upon at least one hardware spatial data storage system, the schedule identifying the content by one or more times further comprises:

transmitting the schedule of content transmission over a data communications link.

4. (CURRENTLY AMENDED) The method of Claim 1, wherein said publishing a schedule of content transmission, the schedule being defined in response to an order in which the at least one content is spatially resident upon at least one hardware spatial data storage system, the schedule identifying the content by one or more times further comprises:

transmitting the schedule of content transmission over a sideband data communications link.

5. (CURRENTLY AMENDED) The method of Claim 1, wherein said publishing a schedule of content transmission, the schedule being defined in response to an order in which the at least one content is spatially resident upon at least one hardware spatial data storage system, the schedule identifying the content by one or more times further comprises:

transmitting the schedule of content transmission to the temporal data storage system.

6. (ORIGINAL) The method of Claim 5, wherein said transmitting the schedule of content transmission to the temporal data storage system further comprises:

interleaving the schedule of content with other data.

7. (ORIGINAL) The method of Claim 6, wherein said interleaving the schedule of content with other data further comprises:

transmitting the schedule relative to at least one time marker amongst the at least one content.

8. (ORIGINAL) The method of Claim 6, wherein said interleaving the schedule of content with other data further comprises:

transmitting the schedule amongst the at least one content at a determined interval of time.

9. (CURRENTLY AMENDED) The method of Claim 1, wherein said reading at least one content from the at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:
reading the at least one content from at least one hard disk drive.

10. (CURRENTLY AMENDED) The method of Claim 9, wherein said reading the at least one content from at least one hard disk drive further comprises:
reading ~~substantially-complete~~ tracks of the at least one hard disk drive in a defined sequence including at least a sequence starting with an outer track and ending with an inner track.

11. (CURRENTLY AMENDED) The method of Claim 9, wherein said reading the at least one content from at least one hard disk drive further comprises:
reading ~~substantially-complete~~ tracks of the at least one hard disk drive in a defined sequence including at least a sequence starting with an inner track and ending with an outer track.

12. (CURRENTLY AMENDED) The method of Claim 9, wherein said reading the at least one content from at least one hard disk drive further comprises:
reading the at least one content from a first disk drive; and
reading a ~~substantial duplicate~~ copy of the at least one content from a second disk drive.

13. (CURRENTLY AMENDED) The method of Claim 9, wherein said reading the at least one content from at least one hard disk drive further comprises:
determining a first time interval during which a first segment of a first content will be reading a first content from a first disk drive; [[and]]
determining a second time interval during which a second segment of the first content will be read reading a second content from a second disk drive; and

defining the schedule in response to the first time interval and the second time interval.

14. (CURRENTLY AMENDED) The method of Claim 1, wherein said reading at least one content from the at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

reading the at least one content of a hard disk drive such that an aggregate distance traversed by a hard disk head is ~~substantially~~ minimized.

15. (CURRENTLY AMENDED) The method of Claim 1, wherein said reading at least one content from the at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

reading the at least one content of a spatial address device such that an aggregate time to read the at least one content of the spatial address device is ~~substantially~~ minimized.

16. (CURRENTLY AMENDED) The method of Claim 1, wherein said reading at least one content from the at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

reading a storage of a hard disk drive with a hard drive arm having at least two disk drive heads, at least one of which is dedicated to at least one specific disk drive track.

17. (CURRENTLY AMENDED) The method of Claim 1, wherein said reading at least one content from the at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

reading the at least one content from at least one file address storage system.

18. (CURRENTLY AMENDED) The method of Claim 1, wherein said reading at least one content from the at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

reading the at least one content from at least one disk address storage system.

19. (CURRENTLY AMENDED) The method of Claim 1, wherein said reading at least one content from the at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

reading the at least one content from at least one tape address storage system.

20. (CURRENTLY AMENDED) The method of Claim 1, wherein said reading at least one content from the at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

reading the at least one content from at least one ~~substantially~~ static memory address storage system.

21. (CURRENTLY AMENDED) The method of Claim 1, wherein said reading at least one content from the at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

reading the at least one content from at least one object address storage system.

22. (CURRENTLY AMENDED) The method of Claim 1, wherein said transmitting the at least one content to a temporal data storage system in accord with the published schedule further comprises:

receiving a portion of the at least one content from the hardware spatial data storage system with a delay-reclocking drive;

writing the portion of the at least one content to the delay-reclocking drive with a head of a first arm of the delay-reclocking drive;

reading the portion of the at least one content from the delay-reclocking drive with a head of a second arm of the delay-reclocking drive, the head of the second arm of the delay-reclocking drive being on a same track as the head of the first arm; and

transmitting the portion of the at least one content to the temporal data storage system.

23. (CURRENTLY AMENDED) The method of Claim 1, wherein said transmitting the at least one content to a temporal data storage system in accord with the published schedule further comprises:

- receiving a portion of the at least one content from the hardware spatial data storage system with a delay-reclocking drive;

- writing the portion of the at least one content to the delay-reclocking drive with a head of a first arm of the delay-reclocking drive;

- reading the portion of the at least one content from the delay-reclocking drive with a head of a second arm of the delay-reclocking drive, the head of the second arm of the delay-reclocking drive being on a different track than the head of the first arm; and

- transmitting the portion of the at least one content to the temporal data storage system.

24. (CURRENTLY AMENDED) The method of Claim 1, wherein said transmitting the at least one content to a temporal data storage system in accord with the published schedule further comprises:

- receiving a portion of the at least one content from the hardware spatial data storage system with a delay-reclocking drive;

- writing the portion of the at least one content to the delay-reclocking drive with a first head of a first arm of the delay-reclocking drive;

- reading the portion of the at least one content from the delay-reclocking drive with a second head of the first arm of the delay-reclocking drive; and

- transmitting the portion of the at least one content to the temporal data storage system.

25. (CURRENTLY AMENDED) The method of Claim 1, wherein said transmitting the at least one content to a temporal data storage system in accord with the published schedule further comprises:

- receiving a portion of the at least one content from the hardware spatial data storage system with a delay-reclocking drive;

writing the portion of the at least one content to the delay-reclocking drive with a first head of a first arm of the delay-reclocking drive;

reading the portion of the at least one content from the delay-reclocking drive with the first head of the first arm of the delay-reclocking drive; and

transmitting the portion of the at least one content to the temporal data storage system.

26. (CURRENTLY AMENDED) A system comprising:

means for publishing a schedule of content transmission, the schedule being defined in response to an order in which the at least one content is spatially resident upon at least one hardware spatial data storage system, the schedule identifying the content by one or more times;

means for reading at least one content from at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission; and

means for transmitting the at least one content to a temporal data storage system in accord with the published schedule.

27. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for publishing a schedule of content transmission, the schedule being defined in response to an order in which the at least one content is spatially resident upon at least one hardware spatial data storage system, the schedule identifying the content by one or more times further comprises:

means for printing the schedule of content transmission on a medium; and

means for distributing the medium to one or more sites associated with one or more associated data switch controllers.

28. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for publishing a schedule of content transmission, the schedule being defined in response to an order in which the at least one content is spatially resident upon at least one hardware spatial data storage system, the schedule identifying the content by one or more times further comprises:

means for transmitting the schedule of content transmission over a data communications link.

29. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for publishing a schedule of content transmission, the schedule being defined in response to an order in which the at least one content is spatially resident upon at least one hardware spatial data storage system, the schedule identifying the content by one or more times further comprises:
means for transmitting the schedule of content transmission over a sideband data communications link.

30. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for publishing a schedule of content transmission, the schedule being defined in response to an order in which the at least one content is spatially resident upon at least one hardware spatial data storage system, the schedule identifying the content by one or more times further comprises:
means for transmitting the schedule of content transmission to the temporal data storage system.

31. (ORIGINAL) The system of Claim 30, wherein said means for transmitting the schedule of content transmission to the temporal data storage system further comprises:
means for interleaving the schedule of content with other data.

32. (ORIGINAL) The system of Claim 31, wherein said means for interleaving the schedule of content with other data further comprises:
means for transmitting the schedule relative to at least one time marker amongst the at least one content.

33. (ORIGINAL) The system of Claim 31, wherein said means for interleaving the schedule of content with other data further comprises:
means for transmitting the schedule amongst the at least one content at a determined interval of time.

34. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for reading at least one content from at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

means for reading the at least one content from at least one hard disk drive.

35. (CURRENTLY AMENDED) The system of Claim 34, wherein said means for reading the at least one content from at least one hard disk drive further comprises:

means for reading ~~substantially-complete~~ tracks of the at least one hard disk drive in a defined sequence including at least a sequence starting with an outer track and ending with an inner track.

36. (CURRENTLY AMENDED) The system of Claim 34, wherein said means for reading the at least one content from at least one hard disk drive further comprises:

means for reading ~~substantially-complete~~ tracks of the at least one hard disk drive in a defined sequence including at least a sequence starting with an inner track and ending with an outer track.

37. (CURRENTLY AMENDED) The system of Claim 34, wherein said means for reading the at least one content from at least one hard disk drive further comprises:

means for reading the at least one content from a first disk drive; and

means for reading a ~~substantial-duplicate~~ copy of the at least one content from a second disk drive.

38. (ORIGINAL) The system of Claim 34, wherein said means for reading the at least one content from at least one hard disk drive further comprises:

means for reading a first content from a first disk drive; and

means for reading a second content from a second disk drive.

39. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for reading at least one content from at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

means for reading the at least one content of a hard disk drive such that an aggregate distance traversed by a hard disk head is ~~substantially~~ minimized.

40. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for reading at least one content from at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

means for reading the at least one content of a spatial address device such that an aggregate time to read the at least one content of the spatial address device is ~~substantially~~ minimized.

41. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for reading at least one content from at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

means for reading a storage of a hard disk drive with a hard drive arm having at least two disk drive heads, at least one of which is dedicated to at least one specific disk drive track.

42. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for reading at least one content from at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

means for reading the at least one content from at least one file address storage system.

43. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for reading at least one content from at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

means for reading the at least one content from at least one disk address storage system.

44. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for reading at least one content from at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

means for reading the at least one content from at least one tape address storage system.

45. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for reading at least one content from at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

means for reading the at least one content from at least one ~~substantially~~ static memory address storage system.

46. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for reading at least one content from at least one hardware spatial data storage system in a fashion independent of the schedule of content transmission further comprises:

means for reading the at least one content from at least one object address storage system.

47. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for transmitting the at least one content to a temporal data storage system in accord with the published schedule further comprises:

means for receiving a portion of the at least one content from the hardware spatial data storage system with a delay-reclocking drive;

means for writing the portion of the at least one content to the delay-reclocking drive with a head of a first arm of the delay-reclocking drive;

means for reading the portion of the at least one content from the delay-reclocking drive with a head of a second arm of the delay-reclocking drive, the head of the second arm of the delay-reclocking drive being on a same track as the head of the first arm; and

means for transmitting the portion of the at least one content to the temporal data storage system.

48. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for transmitting the at least one content to a temporal data storage system in accord with the published schedule further comprises:

means for receiving a portion of the at least one content from the hardware spatial data storage system with a delay-reclocking drive;

means for writing the portion of the at least one content to the delay-reclocking drive with a head of a first arm of the delay-reclocking drive;

means for reading the portion of the at least one content from the delay-reclocking drive with a head of a second arm of the delay-reclocking drive, the head of the second arm of the delay-reclocking drive being on a different track than the head of the first arm; and

means for transmitting the portion of the at least one content to the temporal data storage system.

49. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for transmitting the at least one content to a temporal data storage system in accord with the published schedule further comprises:

means for receiving a portion of the at least one content from the hardware spatial data storage system with a delay-reclocking drive;

means for writing the portion of the at least one content to the delay-reclocking drive with a first head of a first arm of the delay-reclocking drive;

means for reading the portion of the at least one content from the delay-reclocking drive with a second head of the first arm of the delay-reclocking drive; and

means for transmitting the portion of the at least one content to the temporal data storage system.

50. (CURRENTLY AMENDED) The system of Claim 26, wherein said means for transmitting the at least one content to a temporal data storage system in accord with the published schedule further comprises:

means for receiving a portion of the at least one content from the hardware spatial data storage system with a delay-reclocking drive;

means for writing the portion of the at least one content to the delay-reclocking drive with a first head of a first arm of the delay-reclocking drive;

means for reading the portion of the at least one content from the delay-reclocking drive with the first head of the first arm of the delay-reclocking drive; and

means for transmitting the portion of the at least one content to the temporal data storage system.